Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently amended)   A recording apparatus for recording digital audio/video signals on a removable rewritable disc like recording medium, the medium comprising a user area comprising user data represented by the digital audio/video signals, a table area comprising a defect table, the defect table comprising a list of addresses of defect areas in the user area and corresponding replacement areas on the medium, the defect areas identified as defective according to predefined defect management rules, the recording apparatus comprising

    input means for receiving the digital audio/video signals;

    recording means for recording the digital audio/video signals on the medium;

    reading means for reading digital audio/video signals recorded on the medium;

    output means for outputting the digital audio/video signals read; and

control means for controlling recording the digital audio/video signals, wherein the control means are adapted to search the defect table for a replacement area address of a replacement area comprising the user data, to search the defect table for a defect area address of a defect area corresponding to the replacement area, to localize the replacement area according to the replacement area address, to localize the corresponding defect area according to the defect area address, to read the user data from the replacement area, and to re-record the user data read in the defect area regardless of ~~the defect management rules~~whether either of the defect area is indicated as defective or the defect area is defective.

2. (Currently amended) The recording apparatus as claimed in claim 1, wherein the control means are adapted to collect re-recording information related to the re-recording of the user data read in the defect area, and to include the re-recording information in the defect table and to record the defect table in the table area.

3. (Previously presented) The recording apparatus as claimed in

claim 2, wherein the control means are adapted to read user data re-recorded in the defect area, to compare the user data read from the defect area with the user data read from the corresponding replacement area, and to include results of comparing in the re-recording information.

4.   (Previously presented)   The recording apparatus as claimed in claim 2, wherein the control means are adapted to use status bits in the defect table to include the re-recording information in the defect table.

5.   (Currently amended)   A reading apparatus for reading digital audio/video signals from a removable rewritable disc like recording medium, the medium comprising a user area comprising user data represented by the digital audio/video signals, a table comprising a defect table, the defect table comprising a list of addresses of defect areas in the user area and corresponding replacement areas on the medium, the reading apparatus comprising

    reading means for reading digital audio/video signals recorded on the medium;

    output means for outputting the digital audio/video signals

read;

control means for controlling reading the digital audio/video signals, wherein the control means are adapted to monitor a speed of outputting the digital audio/video signals read, to read the defect table from the medium, to search the defect table for a replacement area address of a replacement area comprising the user data, to search the defect table for a defect area address of a defect area corresponding to the replacement area, and to read the user data either from the replacement area or from the defect area corresponding to the replacement area in dependence on monitoring and speed requirements for the speed of outputting the digital audio/video signals read regardless of whether either of the defect area is indicated as defective or the defect area is defective.

6. (Previously presented) The reading apparatus as claimed in claim 5, the defect table comprising re-recording information related to the user data in the defect area and the replacement area, wherein the control means are adapted to read the user data either from the replacement area or from the defect area in dependence on the re-recording information.

7.   (Currently amended)   A method of arranging digital audio/video signals on a removable rewritable disc like recording medium, the medium comprising a user area comprising user data represented by the digital audio/video signals, a table area comprising a defect table, the defect table comprising a list of addresses of defect areas in the user area and corresponding replacement areas on the medium, the defect areas identified as defective according to predefined defect management rules, the method comprising acts of:

searching the defect table for a replacement area address of a replacement area comprising the user data;

searching the defect table for a defect area address of a defect area corresponding to the replacement area;

localizing the replacement area according to the replacement area address;

localizing the corresponding defect area according to the defect area address;

reading the user data from the replacement area; and

re-recording the user data read in the defect area regardless of ~~the defect management rules~~whether either of the defect area is indicated as defective or the defect area is defective.

8.   (Previously presented)   The method as claimed in claim 7, characterized by

collecting re-recording information related to re-recording of the user data read in the defect area;

including the re-recording information in the defect table;

recording the defect table in the table area.

9.   (Previously presented)   The method as claimed in claim 8, comprising acts of:

reading user data re-recorded in the defect area;

comparing the user data read from the defect area with the user data read from the corresponding replacement area; and

including   results   of   comparing   in   the   re-recording information.

10.   (Previously presented)   The method as claimed in claim 8, comprising an act of using status bits in the defect table for including the re-recording information in the defect table.

11.   (Currently amended)   A method of reading digital audio/video signals from a removable rewritable disc like recording medium, the

medium comprising a user area comprising user data represented by

the digital audio/video signals, a table area comprising a defect

table, the defect table comprising a list of addresses of defect

areas in the user area and corresponding replacement areas on the

medium, the method comprising acts of:

    reading the digital audio/video signals from the recording

medium;

    outputting the digital audio/video signals read for

processing;

    monitoring a speed of outputting the digital audio/video

signals read;

    reading the defect table from the medium;

    searching the defect table for a replacement area address of a

replacement area comprising the user data;

    searching the defect table for a defect area address of a

defect area corresponding to the replacement area; and

    reading the user data either from the replacement area or from

the defect area corresponding to the replacement area in dependence

on the monitoring and speed requirements for the speed of

outputting the digital audio/video signals read regardless of

whether either of the defect area is indicated as defective or the

defect area is defective.

12. (Previously presented) The method as claimed in claim 11, the method comprising acts of

re-recording information related to the user data in the defect area and the replacement area; and

reading the user data either from the replacement area or from the defect area in dependence on the re-recording information.

13. (Currently amended) A computer data system comprising a computer connected to a recording apparatus for recording digital audio/video signals on a removable rewritable disc like recording medium, the medium comprising a user area comprising user data represented by the digital audio/video signals, a table area for recording a defect table comprising a list of addresses of defect areas in the user area and corresponding replacement areas on the medium, the defect areas identified as defective according to predefined defect management rules, the recording apparatus comprising:

input means connected to the computer for receiving the digital audio/video signals;

recording means for recording the digital audio/video signals on the medium;

reading means for reading digital audio/video signals recorded on the medium;

output means for outputting the digital audio/video signals read to the computer; and

control means for controlling recording the digital audio/video signals, wherein the computer is adapted to control the control means to:

search the defect table for a replacement area address of a replacement area comprising the user data;

search the defect table for a defect area address of a defect area corresponding to the replacement area;

localize the replacement area according to the replacement area address;

localize the corresponding defect area according to the defect area address;

read the user data from the replacement area; and

re-record the user data read in the defect area regardless of ~~the defect management rules~~ whether either of the defect area is indicated as defective or the defect area is defective.

14.   (Currently amended)   A computer program stored on a computer

readable memory medium for arranging digital audio/video signals on

a removable rewritable disc like recording medium, the medium

comprising a user area comprising user data represented by the

digital audio/video signals, a table area comprising a defect

table, the defect table comprising a list of addresses of defect

areas in the user area and corresponding replacement areas on the

medium, the defect areas identified as defective according to

predefined defect management rules, wherein the program is

operative to cause a processor to perform acts of:

searching the defect table for a replacement area address of a

replacement area comprising the user data;

searching the defect table for a defect area address of a

defect area corresponding to the replacement area;

localizing the replacement area according to the replacement

area address;

localizing the corresponding defect area according to the

defect area address;

reading the user data from the replacement area; and

re-recording the user data read in the defect area regardless

of the defect management rules whether either of the defect area is

indicated as defective or the defect area is defective.